



1

## SEQUENCE LISTING

<110> KIKUTANI, HITOSHI  
KUMANOGOH, ATSUSHI  
HORI, AKIRA

<120> SCREENING METHOD USING CD100

<130> 46342/56,721

<140> 10/009,330

<141> 2001-12-03

<150> PCT/JP00/03558

<151> 2000-06-01

<150> JP 157111/1999

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<170> PatentIn Ver. 2.1

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35 40 45

Asn Tyr Ser Ala Leu Leu Met Ser Glu Asp Lys Asp Thr Leu Tyr Val  
50 55 60

Gly Ala Arg Glu Ala Val Phe Ala Val Asn Ala Leu Asn Ile Ser Glu  
65 70 75 80

Lys Gln His Glu Val Tyr Trp Lys Val Ser Glu Asp Lys Lys Ser Lys  
85 90 95

Cys Ala Glu Lys Gly Lys Ser Lys Gln Thr Glu Cys Leu Asn Tyr Ile  
100 105 110

Arg Val Leu Gln Pro Leu Ser Ser Thr Ser Leu Tyr Val Cys Gly Thr  
115 120 125

Asn Ala Phe Gln Pro Thr Cys Asp His Leu Asn Leu Thr Ser Phe Lys  
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Phe Leu Gly Lys Ser Glu Asp Gly Lys Gly Arg Cys Pro Phe Asp Pro  
145 150 155 160

Ala His Ser Tyr Thr Ser Val Met Val Gly Gly Glu Leu Tyr Ser Gly  
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 Thr Ser Tyr Asn Phe Leu Gly Ser Glu Pro Ile Ile Ser Arg Asn Ser  
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 Ser His Ser Pro Leu Arg Thr Glu Tyr Ala Ile Pro Trp Leu Asn Glu  
 195 200 205  
 Pro Ser Phe Val Phe Ala Asp Val Ile Gln Lys Ser Pro Asp Gly Pro  
 210 215 220  
 Glu Gly Glu Asp Asp Lys Val Tyr Phe Phe Thr Glu Val Ser Val  
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 Cys Lys Gly Asp Gln Gly Gly Leu Arg Thr Leu Gln Lys Lys Trp Thr  
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 Gly Thr Phe Tyr Asp Val Met Phe Ile Ser Thr Asp Arg Gly Ala Leu  
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Lys Lys Gly Arg Lys Phe Val Tyr Ala Gly Ser Asn Ser Gly Val Val  
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Gln Ala Pro Leu Ala Phe Cys Glu Lys His Gly Ser Cys Glu Asp Cys  
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Val Leu Ala Arg Asp Pro Tyr Cys Ala Trp Ser Pro Ala Ile Lys Ala  
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Asp Met Ser Gly Asp Thr Ser Ser Cys Leu Asp Lys Ser Lys Glu Ser  
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Glu Leu Lys Ala Ala Ser Pro Lys Tyr Gly Phe Val Gly Arg Lys His  
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Pro Val Gly Ser Thr Gln Gly Ser Ser Pro Pro Thr Pro Ala Leu Trp  
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Ala Thr Ser Pro Arg Ala Ala Thr Leu Pro Pro Lys Ser Ser Ser Gly  
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Ser Glu Lys Thr Val Tyr Leu Lys Ser Ser Asp Asn Arg Leu Leu Met  
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Ser Leu Leu Leu Phe Ile Phe Val Leu Phe Leu Cys Leu Phe Ser Tyr  
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Asn Cys Tyr Lys Gly Tyr Leu Pro Gly Gln Cys Leu Lys Phe Arg Ser  
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Ala Leu Leu Leu Gly Lys Lys Thr Pro Lys Ser Asp Phe Ser Asp Leu  
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Glu Gln Ser Val Lys Glu Thr Leu Val Glu Pro Gly Ser Phe Ser Gln  
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Gln Asn Gly Asp His Pro Lys Pro Ala Leu Asp Thr Gly Tyr Glu Thr  
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Glu Gln Asp Thr Ile Thr Ser Lys Val Pro Thr Asp Arg Glu Asp Ser  
 820 825 830

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Asn Tyr Ser Ala Leu Leu Leu Ser Glu Asp Lys Asp Thr Leu Tyr Ile  
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Gly Ala Arg Glu Ala Val Phe Ala Val Asn Ala Leu Asn Ile Ser Glu  
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Lys Gln His Glu Val Tyr Trp Lys Val Ser Glu Asp Lys Lys Ala Lys  
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Cys Ala Glu Lys Gly Lys Ser Lys Gln Thr Glu Cys Leu Asn Tyr Ile  
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Arg Val Leu Gln Pro Leu Ser Ala Thr Ser Leu Tyr Val Cys Gly Thr  
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Asn Ala Phe Gln Pro Ala Cys Asp His Leu Asn Leu Thr Ser Phe Lys  
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Thr Ser Tyr Asn Phe Leu Gly Ser Glu Pro Ile Ile Ser Arg Asn Ser  
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Cys Lys Gly Asp Gln Gly Gly Leu Arg Thr Leu Gln Lys Lys Trp Thr  
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Ser Phe Leu Lys Ala Arg Leu Ile Cys Ser Arg Pro Asp Ser Gly Leu  
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Lys Val Pro Val Phe Tyr Ala Leu Phe Thr Pro Gln Leu Asn Asn Val  
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Gly Leu Ser Ala Val Cys Ala Tyr Asn Leu Ser Thr Ala Glu Glu Val  
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Asn Leu Pro Asp Lys Thr Leu Gln Phe Val Lys Asp His Pro Leu Met  
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Asp Asp Ser Val Thr Pro Ile Asp Asn Arg Pro Arg Leu Ile Lys Lys  
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Asp Val Asn Tyr Thr Gln Ile Val Val Asp Arg Thr Gln Ala Leu Asp  
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Gly Thr Val Tyr Asp Val Met Phe Val Ser Thr Asp Arg Gly Ala Leu  
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His Lys Ala Ile Ser Leu Glu His Ala Val His Ile Ile Glu Glu Thr  
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Lys Lys Gly Asn Arg Phe Val Tyr Ala Gly Ser Asn Ser Gly Val Val  
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Gln Ala Pro Leu Ala Phe Cys Gly Lys His Gly Thr Cys Glu Asp Cys  
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Cys Val Ala Leu His Gln Thr Glu Ser Pro Ser Arg Gly Leu Ile Gln  
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Glu Met Ser Gly Asp Ala Ser Val Cys Pro Asp Lys Ser Lys Gly Ser  
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Tyr Arg Gln His Phe Phe Lys His Gly Gly Thr Ala Glu Leu Lys Cys  
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Ser Gln Lys Ser Asn Leu Ala Arg Val Phe Trp Lys Phe Gln Asn Gly  
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Leu Ser Glu Glu Arg Val Lys Asn Lys Thr Val Phe Gln Val Val Ala  
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Lys His Val Leu Glu Val Lys Val Val Pro Lys Pro Val Val Ala Pro  
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Thr Leu Ser Val Val Gln Thr Glu Gly Ser Arg Ile Ala Thr Lys Val  
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Leu Val Ala Ser Thr Gln Gly Ser Ser Pro Pro Thr Pro Ala Val Gln  
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Ala Thr Ser Ser Gly Ala Ile Thr Leu Pro Pro Lys Pro Ala Pro Thr  
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Gly Thr Ser Cys Glu Pro Lys Ile Val Ile Asn Thr Val Pro Gin Leu  
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His Ser Glu Lys Thr Met Tyr Leu Lys Ser Ser Asp Asn Arg Leu Leu  
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Met Ser Leu Phe Leu Phe Phe Val Leu Phe Leu Cys Leu Phe Phe  
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Tyr Asn Cys Tyr Lys Gly Tyr Leu Pro Arg Gln Cys Leu Lys Phe Arg  
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Ser Ala Leu Leu Ile Gly Lys Lys Lys Pro Lys Ser Asp Phe Cys Asp  
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Arg Glu Gln Ser Leu Lys Glu Thr Leu Val Glu Pro Gly Ser Phe Ser  
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Gln Gln Asn Gly Glu His Pro Lys Pro Ala Leu Asp Thr Gly Tyr Glu  
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Thr Glu Gln Asp Thr Ile Thr Ser Lys Val Pro Thr Asp Arg Glu Asp  
820 825 830

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Gly Gly Pro Pro Gly Leu Ala Ser Pro Ala Leu Ala Asp Lys Ala Gly  
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Val Gly Ser Glu Gln Pro Thr Ala Thr Trp Ser Ser Val Asn Ser Ser  
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Ala Leu Arg Gln Ile Pro Arg Cys Pro Thr Val Cys Leu Gln Tyr Phe  
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Leu Leu Gly Leu Leu Val Ser Cys Leu Met Leu Gly Val Ala Val Ile  
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 Cys Leu Gly Val Arg Tyr Leu Gln Val Ser Arg Gln Phe Gln Glu Gly  
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 Thr Arg Ile Trp Glu Ala Thr Asn Ser Ser Leu Gln Gln Gln Leu Arg  
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 Glu Lys Ile Ser Gln Leu Gly Gln Lys Glu Val Glu Leu Gln Lys Ala  
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 Arg Lys Glu Leu Ile Ser Ser Gln Asp Thr Leu Gln Glu Lys Gln Arg  
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 Thr His Glu Asp Ala Glu Gln Gln Leu Gln Ala Cys Gln Ala Glu Arg  
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 Ala Lys Thr Lys Glu Asn Leu Lys Thr Glu Glu Glu Arg Arg Arg Asp  
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 Ser Asp Ser Ser Asp Thr Cys Cys Pro Cys Gly Trp Ile Pro Tyr Gln  
 225 230 235 240  
 Glu Arg Cys Phe Tyr Ile Ser His Thr Leu Gly Ser Leu Glu Glu Ser  
 245 250 255  
 Gln Lys Tyr Cys Thr Ser Leu Ser Ser Lys Leu Ala Ala Phe Asp Glu  
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 Pro Ser Lys Tyr Tyr Tyr Glu Tyr Leu Ser Asp Ala Pro Gln Val Ser  
 275 280 285  
 Leu Pro Ser Gly Leu Glu Glu Leu Leu Asp Arg Ser Lys Ser Tyr Trp  
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 Ile Gln Met Ser Lys Lys Trp Arg Gln Asp Ser Asp Ser Gln Ser Arg  
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 His Cys Val Arg Ile Lys Thr Tyr Tyr Gln Lys Trp Glu Arg Thr Ile  
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 Ser Lys Cys Ala Glu Leu His Pro Cys Ile Cys Glu Ser Glu Ala Phe  
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&lt;211&gt; 359

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 7

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| Met | Ala | Glu | Ala | Ile | Thr | Tyr | Ala | Asp | Leu | Arg | Phe | Val | Lys | Ala | Pro |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     | 15  |     |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Lys | Lys | Ser | Ile | Ser | Ser | Arg | Leu | Gly | Gln | Asp | Pro | Gly | Ala | Asp |
|     |     |     |     | 20  |     |     |     | 25  |     |     |     | 30  |     |     |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Asp | Gly | Glu | Ile | Thr | Tyr | Glu | Asn | Val | Gln | Val | Pro | Ala | Val | Leu |
|     |     |     |     | 35  |     |     | 40  |     |     |     | 45  |     |     |     |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Val | Pro | Ser | Ser | Leu | Ala | Ser | Ser | Val | Leu | Gly | Asp | Lys | Ala | Ala |
|     |     |     |     | 50  |     |     | 55  |     |     | 60  |     |     |     |     |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Lys | Ser | Glu | Gln | Pro | Thr | Ala | Ser | Trp | Arg | Ala | Val | Thr | Ser | Pro |
|     | 65  |     |     |     | 70  |     |     |     | 75  |     |     | 80  |     |     |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Val | Gly | Arg | Ile | Leu | Pro | Cys | Arg | Thr | Thr | Cys | Leu | Arg | Tyr | Leu |
|     |     |     |     | 85  |     |     |     | 90  |     |     | 95  |     |     |     |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Leu | Gly | Leu | Leu | Leu | Thr | Cys | Leu | Leu | Leu | Gly | Val | Thr | Ala | Ile |
|     |     |     |     | 100 |     |     |     | 105 |     |     | 110 |     |     |     |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cys | Leu | Gly | Val | Arg | Tyr | Leu | Gln | Val | Ser | Gln | Gln | Leu | Gln | Gln | Thr |
|     |     |     |     | 115 |     |     | 120 |     |     | 125 |     |     |     |     |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Arg | Val | Leu | Glu | Val | Thr | Asn | Ser | Ser | Leu | Arg | Gln | Gln | Leu | Arg |
|     |     |     |     | 130 |     |     | 135 |     |     | 140 |     |     |     |     |     |

Leu Lys Ile Thr Gln Leu Gly Gln Ser Ala Glu Asp Leu Gln Gly Ser  
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Arg Arg Glu Leu Ala Gln Ser Gln Glu Ala Leu Gln Val Glu Gln Arg  
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Ala His Gln Ala Ala Glu Gly Gln Leu Gln Ala Cys Gln Ala Asp Arg  
 180 185 190

Gln Lys Thr Lys Glu Thr Leu Gln Ser Glu Glu Gln Gln Arg Arg Ala  
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Leu Glu Gln Lys Leu Ser Asn Met Glu Asn Arg Leu Lys Pro Phe Phe  
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Thr Cys Gly Ser Ala Asp Thr Cys Cys Pro Ser Gly Trp Ile Met His  
 225 230 235 240

Gln Lys Ser Cys Phe Tyr Ile Ser Leu Thr Ser Lys Asn Trp Gln Glu  
 245 250 255

Ser Gln Lys Gln Cys Glu Thr Leu Ser Ser Lys Leu Ala Thr Phe Ser  
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Glu Ile Tyr Pro Gln Ser His Ser Tyr Tyr Phe Leu Asn Ser Leu Leu  
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Pro Asn Gly Gly Ser Gly Asn Ser Tyr Trp Thr Gly Leu Ser Ser Asn  
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Lys Asp Trp Lys Leu Thr Asp Asp Thr Gln Arg Thr Arg Thr Tyr Ala  
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Gln Ser Ser Lys Cys Asn Lys Val His Lys Thr Trp Ser Trp Trp Thr  
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Leu Glu Ser Glu Ser Cys Arg Ser Ser Leu Pro Tyr Ile Cys Glu Met  
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Thr Ala Phe Arg Phe Pro Asp  
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53